



1 MQTCPLAFPG HVSQALGTLL FLAASLSAQN EGWDSPICTE GVVSVSWGEN
51 TVMSCNISNA FSHVNIKLRA HGOESAIFNE VAPGYFSRDG WQLQVQGGVA
101 QLVIKGARDS HAGLYMWHLV GHQRNNRQVT LEVSGAEPQS APDTGFWPVP
151 AVVTAVFILL VALVMFAWYR CRCSQQRREK KFFLLEPQMK VAALRAGAQQ
201 GLSRASAELW TPDSEPTPRP LALVFKPSPL GALELLSPQP LFPYAADP*

Fig.1



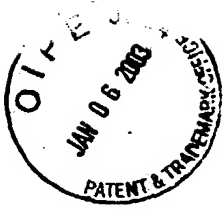
K12 promoter (1-195) and cDNA (196-2180) sequence

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1  ATTCCTGCTT CCTTTAGCGT GAACGCGGGT GCGGTGCCTC CCGTGAAATA
51  ATAAATTAC  CGTCACGCTT GTTGTGAACG CGGGTGGTTC CCGAAACTTG
101 GAGGCTTCCC GTAAACCCAG CTCCTTCCTC ATCTGGGAGG TGGGTCCCGC
      ↓
151 GCGGGTCCGC CGCCTCCTCC CTGGCCCCCTC CCTCTCGTGT CTTTCATTTT
201 CCTGGGGCTC CGGGGCGCGG AGAAGCTGCA TCCCAGAGGA GCGCGTCCAG
251 GAGCGGACCC GGGAGTGTTT CAAGAGCCAG TGACAAGGAC CAGGGGCCCCA
301 AGTCCCACCA GCCATGCAGA CCTGCCCCCT GGCATTCCCT GGCCACGTTT
351 CCCAGGCCCT TGGGACCCTC CTGTTTGTGG CTGCCTCCTT GAGTGCTCAG
401 AATGAAGGCT GGGACAGCCC CATCTGCACA GAGGGGGTAG TCTCTGTGTC
451 TTGGGGCGAG AACACCGTCA TGTCTGCAA CATCTCCAAC GCCTTCTCCC
501 ATGTCAACAT CAAGCTGCGT GCCACGGGC AGGAGAGCGC CATCTTCAAT
551 GAGGTGGCTC CAGGCTACTT CTCCCGGGAC GGCTGGCAGC TCCAGGTTCa
601 GGGAGGCGTG GCACAGCTGG TGATCAAAGG CGCCCGGGAC TCCCATGCTG
651 GGCTGTACAT GTGGCACCTC GTGGGACACC AGAGAAATAA CAGACAAGTC
701 ACGCTGGAGG TTTCAGGTGC AGAACCCAG TCCGCCCCTG AACTEGGGTT
751 CTGGCCTGTG CCAGCGGTGG TCACTGCTGT CTTTCATCCTC TTGGTCGCTC
801 TGGTCATGTT CGCCTGGTAC AGGTGCCGCT GTTCCCAGCA ACGCCGGGAG
851 AAGAAGTTCT TCCTCCTAGA ACCCCAGATG AAGGTCGCAG CCCTCAGAGC
901 GGGAGCCAG CAGGGCCTGA GCAGAGCCTC CGCTGAACTG TGGACCCAG
951 ACTCCGAGCC CACCCCAAG CCGCTGGCAC TGGTGTTCAA ACCCTCACCA
1001 CTTGGAGCCC TGGAGCTGCT GTCCCCCCCCA ACCCTTGTTT CCATATGCCG
1051 CAGACCCATA GCCGCCTGCA AGGCAGAGAG GACACAGGAG AGCCAGCCCT
1101 GAGTGCCGAC CTTGGGTGEC GGGGCCTGGG TCTCTCGTCC CACCCGGAGG
1151 GCACAGACAC CGGCTTGCTT GGCAGGCTGG GCCTCTGTGT CACCCACTCC

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Fig.2A



1201 TGGGTGCGTG CAGACCCTTC CCCTCCACCC CCCAGGTCTT CCAAGCTCTG
 1251 CTTCTCAGT TTCCAAAATG GAACCACCTC ACCTCCGCAG CACCCGACTT
 1301 ACCAGGACGC ATGCCCCCTCC CTCTGCCCTC ATCAAACCCA CAGACCCGGA
 1351 CTCCCTTTCT GCCACCCAG GCTGGTCCGG CCCAGGTGT GGGGTCCGCT
 1401 CTCTCCACTC CCAGGGCTCC GCGCCCAAGT GAGGGGGCCC CTGCCGAGC
 1451 CTCAGACACA CTGGAGTTCA GGGCTGGGGG GGCCTTGGCA CATACTGTC
 1501 CCTTGGCTAT GAGCAGGCTT TGGGGGCCCT TCCGCGGCAG CCCCGGGGGC
 1551 CGAGGTAGGG TCTGGGGGCT TAGAGGCTGG GATGGCTCCT GGCCCCACCG
 1601 CCAGGGGGCA AGCGCAGGCC GGGCTGGGAG GCGGCGGCGG CGGCTCGGGC
 1651 TGGGGGGTCA GGTGGACGCT GCCTCCGGGG CTGGTCGCGC ATCCCTCAGT
 1701 CCCTCGGCCA CCCGGGGGTC GCTCCCTCGT GCCACCGCA CCTGCCGAGC
 1751 CTCTTTGGAC CCAGATCTGT TCATGCTTTT GTCTTCGTCA CTGCGGCGGG
 1801 GCCCTTTGAT GTCTTCATCT GTATGGGGTG GAAAAATCAC CGGGAATCCC
 1851 CCTTCAGTTC TTTGAAAAAG TTCCATGACT CGAATATCTG AAATGAAGAA
 1901 AACAAACCGA CTCACAAACC TCCAAGTAGC TCCAAATGCA ATTTTAAAA
 1951 TGGAAAACAA AAATCTGAAA GAAACGTCTT TAGTGGCTTT AAGCCCCAAA
 2001 ACGTCCCTAA GCGTCCCTCG AGATGAAGAC GGGGGGAGC CCCAGCCAGG
 2051 TGGAGACCCC GCAGGACGCG GCGGCGCCCG GTGACCGAGG CCTCGCACAG
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 2151 GTGTCTCGGG TTAAAATAAG GTTCCGTCCG

Fig.2B

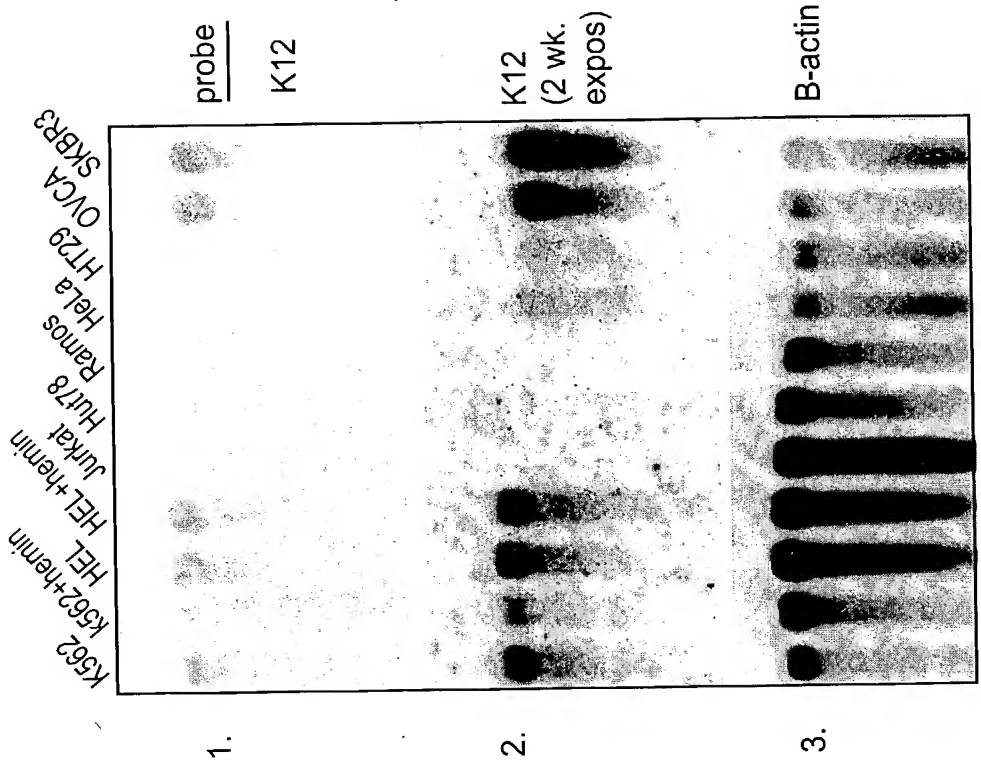
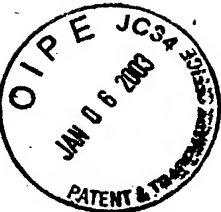


Fig.3B

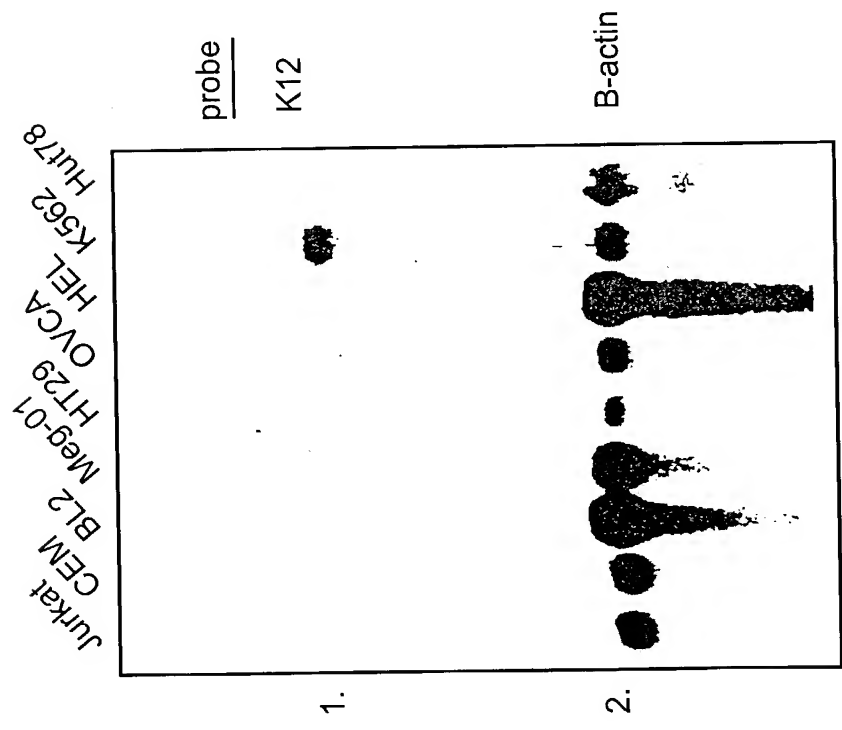


Fig.3A

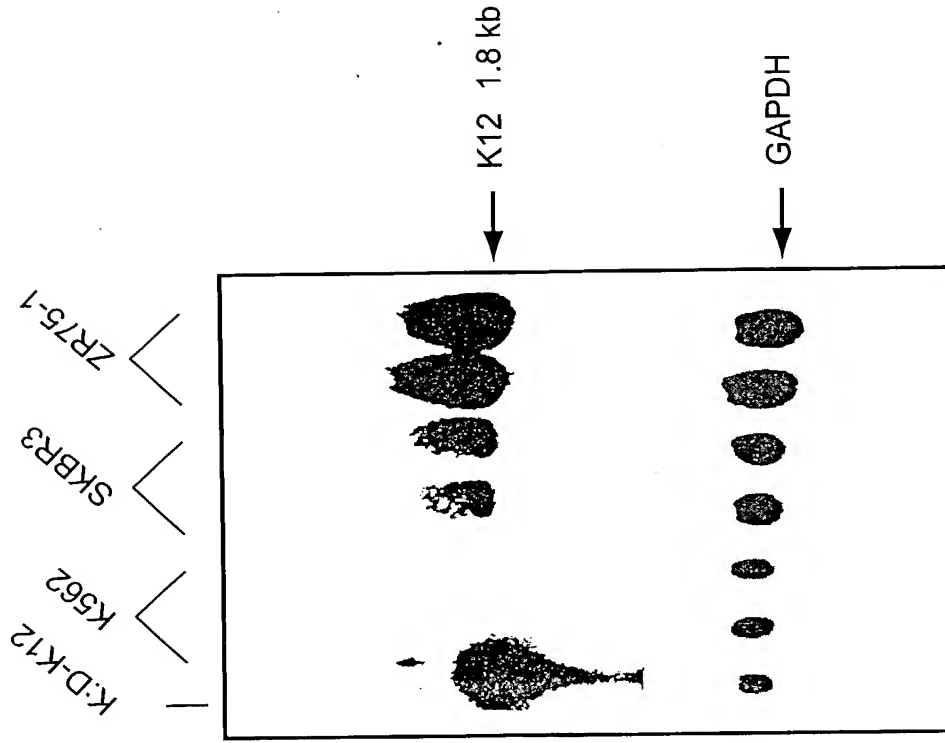
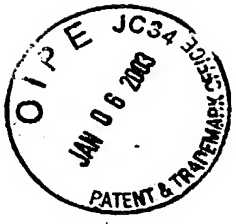


Fig.3D

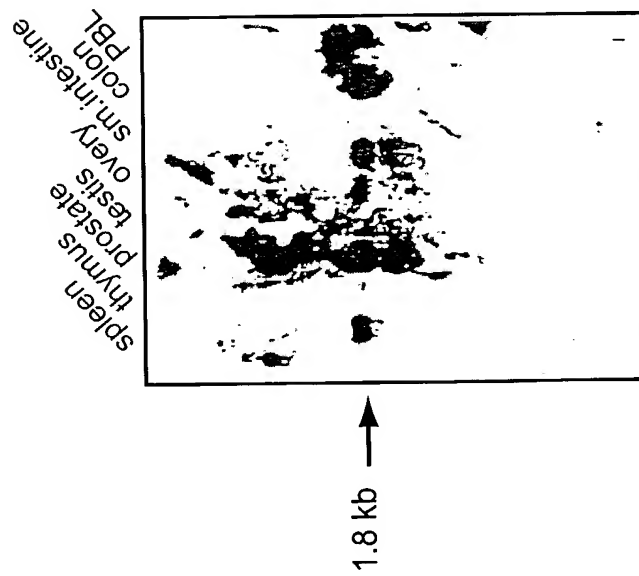


Fig.3C



10080522 .010603

1 2 3 4 5 6 7 8 9 10

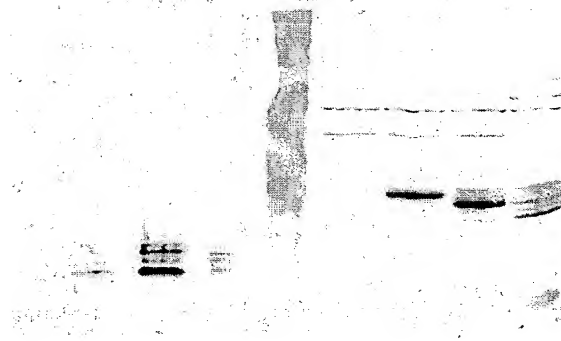


Fig.4



Fig.5A



Fig.5B

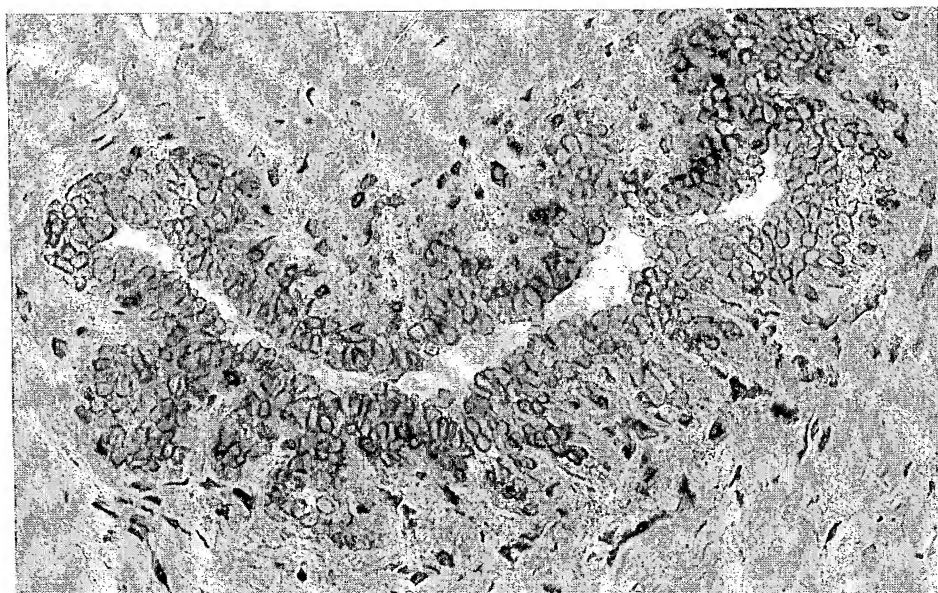


Fig.6A

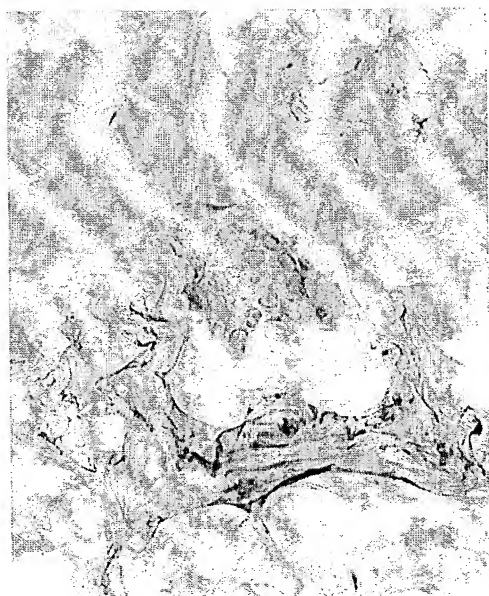


Fig.6B

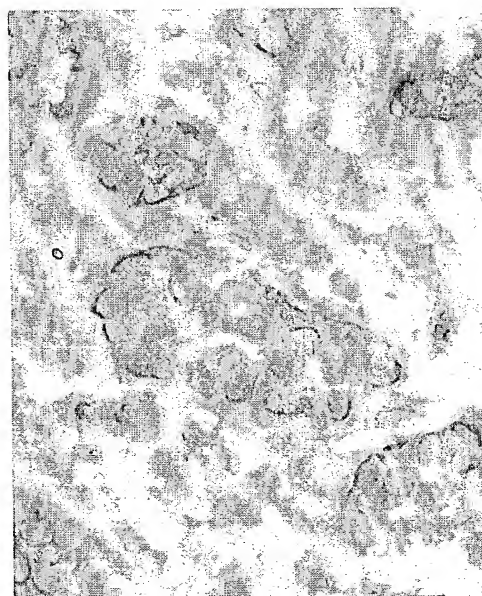


Fig.6C

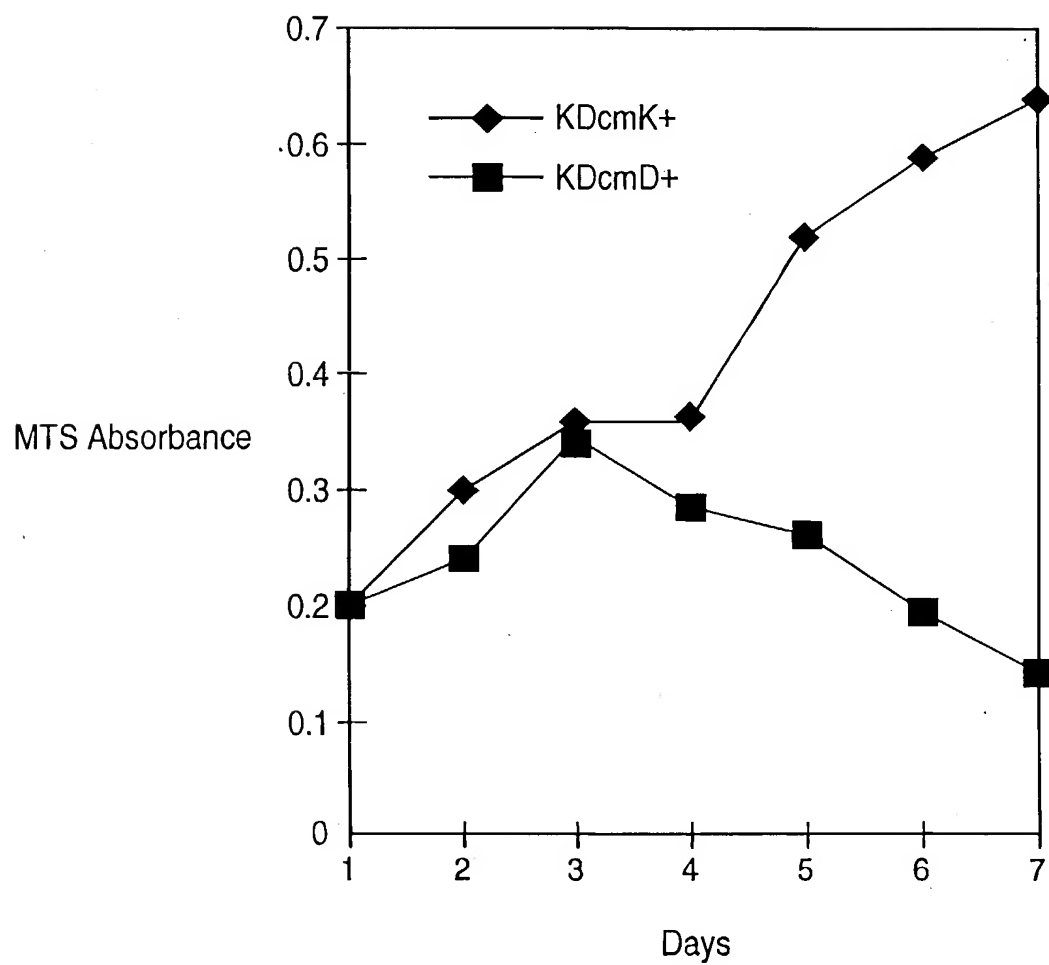
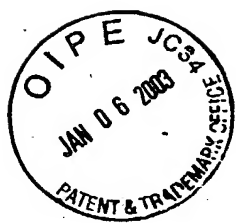


Fig.7